



Connecting People, Cloud and Things

The Cloud, BYOD, and the Internet of Things (IoT) are raising the stakes for network IT. Expectations are higher than ever. And to meet them, enterprises need open, agile and intelligent networks. But today's infrastructures are proprietary and inflexible. Gartner asserts that 80% of newly installed wireless networks will be obsolete due to poor planning. Yet, according to Forrester, 44% of administrators simply don't have the time. So something has to give.

Meru makes it easier with our integrated wireless network architecture that offers flexibility at each functional network layer – policy, management, control and access. Meru lets you manage your network your way—and gives users the consistent, interactive experience they've come to expect. You get the tools to control network access, the flexibility to deploy the best Wi-Fi coverage for your environment, and the infrastructure to take you into the future.

At the heart of a Meru network is our unique patented technologies, which allow the network to be in control; providing flexibility through Virtual Cell, Air Traffic Control, channel layering and context awareness. By eliminating the need for devices to continually reassociate to new access points as users roam across floors or across campuses, Meru provides the most seamless and reliable mobile Wi-Fi user experience in the industry. Cost-effective and easy to deploy, a Meru wireless network intelligently self-optimizes to minimize the workload on your IT administrators - even in networks with thousands of smartphones, tablets, laptops, and other mobile devices.

- **Unique Access:** Eliminate channel planning by placing the network in control, while also utilizing channel layering to prioritize application traffic.
- **Flexible Control:** Utilize control plane options to best meet your requirements, from on-premise controllers to private cloud hosted solutions.
- **Fully Managed:** Easily expand and manage your network using Meru Center with Network Manager. Optimize performance using Service Assurance Manager and Spectrum Analyzer.
- **Total Security:** Protect and secure your network with enterprise-class encryption, policy enforcement, and intrusion protection. Audit your security with Meru's PCI compliance module.
- **Best in Class Policy:** Simplify onboarding of devices and guest access with Meru Connect (formerly known as Identity Manager), which offers easy to configure role- and policy-based provisioning. Meru Connect supports both wireless and wired equipment, as well as both Meru and non-Meru infrastructure.
- **Highest Performance:** Independent tests show that Meru 802.11ac access points outperform the competition. Meru's WLAN solution, with its unique single-channel, virtual-cell option provides pervasive coverage with just one channel. In addition, channel layering allows enterprises to physically separate applications at the radio frequency (RF) layer for the highest possible quality of service (QoS). Meru delivers the performance needed in high-density environments such as lecture halls, convention centers, and stadiums.

The control and flexibility you need to meet growing network demands

MobileFLEX

MobileFLEX is a unified network architecture that delivers the reliable service users need to stay productive, while at the same time giving you control to meet increasing demands for capacity and bandwidth. MobileFLEX offers high levels of flexibility at each architecture layer—access, control, management, policy, and applications—so you can deploy and scale your network to suit your environment.

The benefits of MobileFLEX build with each layer of the architecture.

FLEX Access: Delivers ubiquitous network coverage on campus, in remote locations, inside, or outdoors—even in highly dense client environments.

FLEX Control: Provides multiple WLAN deployment options. Controllers may be hardware-based, located on premise with centralized or distributed hardware; or virtualized, hosted in the cloud with VMware. MobileFLEX also supports service discovery protocols such as Apple Bonjour, Simple Service Delivery Protocol (SSDP), and WS-Discovery.

FLEX Management: Simplifies unified network and security management and makes it easy to manage any network. This includes management of large distributed deployments or integrated management across wired and wireless networks. Proactive systems let you diagnose and fix problems before users even see them.

FLEX Policy: Streamlines the task of provisioning devices and managing guest access without sacrificing security or control. Ensures consistent, policy-based access for both wired and wireless BYOD.

MobileFLEX provides an open platform to simplify the integration and support of ancillary technologies including:

- SolarWinds wired-wireless network management software
- AeroScout monitoring software
- Microsoft Lync for unified communications
- Specialized applications for education, healthcare, hospitality, and other industries



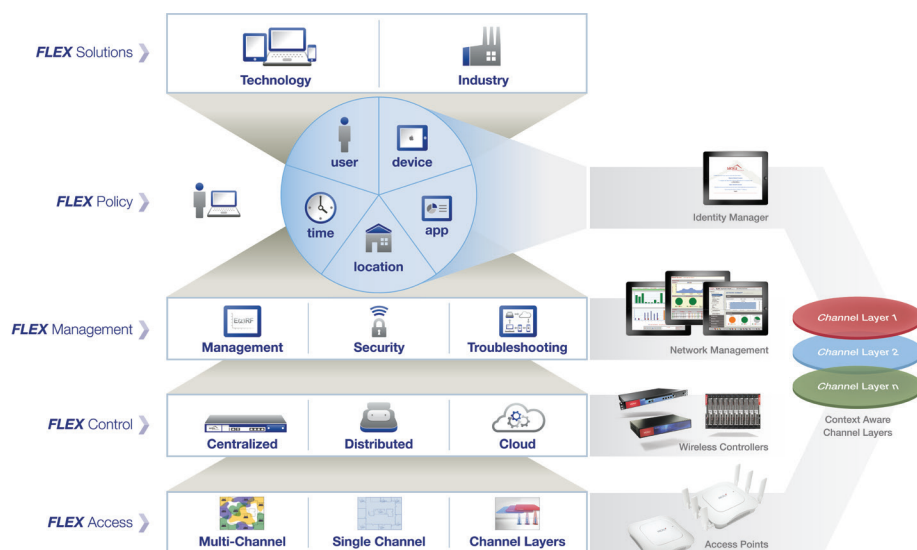
System Director, the operating system that runs in every Meru controller and associated access point—puts the network in control to optimize the performance of your wireless network.

Key Advantages

Reliable: Switch-like wireless performance

Scalable: Independent channel layering

Predictable: Proactive management, security, and diagnostics

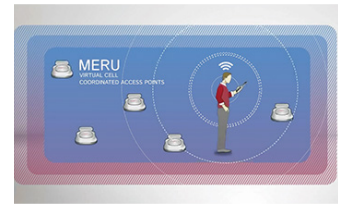


Flex Access Services

Virtual Cell

Unlike traditional WLANs — where devices see dozens or even hundreds of access points operating on different channels — Meru gives each user device a single virtualized point of access. No matter how many physical access points in the network, Virtual Cell will:

- Eliminate the boundaries created by a hub-like patchwork of access points.
- Create the appearance of a single, seamless layer of coverage.
- Let your network—not client devices—make connectivity decisions.
- Allow users to move freely, without disruptive handoffs—giving them the convenience they expect from their wireless devices.



Meru VIRTUAL CELL

Air Traffic Control®

Most WLAN systems only manage the transmissions devices receive. Meru Air Traffic Control® manages the transmissions from both the device and access point—giving you system-wide awareness and maximizing performance.

- Prevent system overloads.
- Deliver seamless mobility.
- Boost performance.
- Detect security threats before they cause damage.

Airtime Fairness®

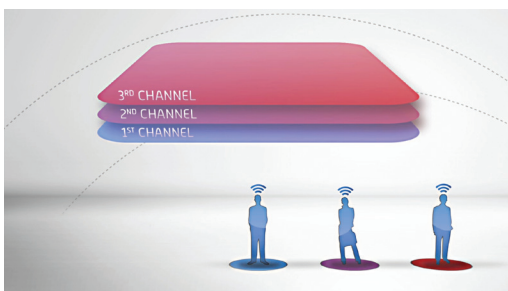
With Airtime Fairness®, the speed of the network is not determined by the slowest traffic. By allocating time equally among clients, Airtime Fairness allows every transmission to move at its highest potential speed. This means that Wi-Fi devices with older technologies do not impact overall network throughput.

- Blend legacy traffic and mobile traffic—without bottlenecks.
- Deploy a network that is equally accessible for any Wi-Fi device.
- Enable bandwidth-hungry applications to perform at peak capability, including data, voice, or video.
- Give your users consistent performance, every time they access the network.
- Deploy mixed 802.11 a/b/g/n networks in high-density environments.

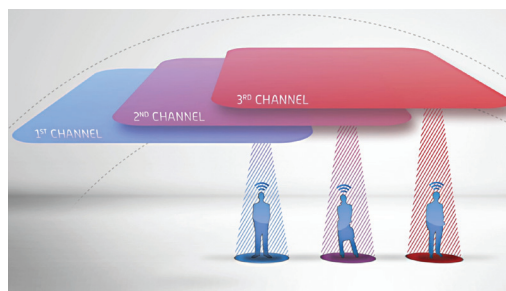
Channel Layering

Deploy multiple, independent channel layers to increase capacity, deliver redundant coverage and automatic load balancing. Meru Channel Layering allows several virtual cells using different channels to coexist in the same space. This works much like stacking Ethernet switches in a wired network. Each subsequent layer adds as much capacity as the first.

- Give your users the advantage of the best radio frequency for consistent availability.
- Easily add channel layers to provide additional capacity as needed.
- Give specific user groups, different types of traffic and vendors their own channels.
- Make every channel available throughout the entire environment.
- Automatically balance device load across channels for optimal performance.



Highly SCALABLE



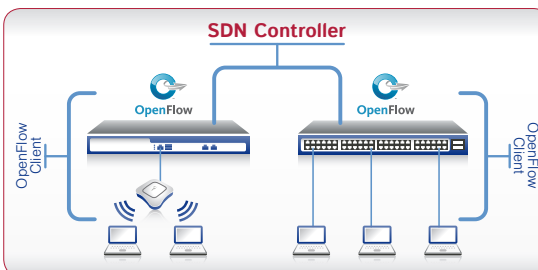
ISOLATE Devices or Apps

Wi-Fi for an Open and Agile Enterprise



SDN

As the enterprise edge transitions to an all-wireless network, software-defined networking (SDN) and OpenFlow bring new levels of agility to the enterprise. SDN is emerging as an important open networking technology to address key challenges such as multi-vendor interoperability, repetitive manual processes and configuration updates.



OpenFlow is the communications protocol that enables SDN applications. The Open Networking Foundation (ONF) is a user-led organization dedicated to the promotion and adoption of SDN. Meru is leading the way as the first wireless LAN vendor to receive the OpenFlow Certificate of Conformance. Our wireless LAN controllers use SDN to enable third-party control all the way down to the access point. This provides customers with confidence that the products they adopt will provide multi-vendor support.

Meru is collaborating with IT giants such as NEC to enable seamless interoperability between the NEC wired network systems and Meru 802.11ac intelligent Wi-Fi solutions. Additional SDN-enabled applications such as Meru Collaborator and Personal Bonjour are delivered with Meru Center via the Meru App Store. This library function presents a set of qualified applications that may be selected and easily installed on your Meru network.

Meru Collaborator: An SDN application that integrates with Microsoft's Lync unified communication solution with the ability to detect QoS (quality of service) issues on a heterogeneous wired/wireless network, deliver prescriptive resolution options and prioritize traffic across multi-vendor wired and wireless networks.

Meru Personal Bonjour: An application that helps discover Bonjour services across unified networks and advertises services to users according to established policies – a personal area network solution. Users get the services they want while IT has the control it needs through a single management window.



Microsoft Lync

With smart phones, tablets & other wireless devices, wired desktop phones are going unused by today's mobile workforce. The rapid growth of unified communication tools such as Microsoft Lync deliver a rich collaboration experience - enabling a more agile work place, improving productivity and lowering costs. Lync connects people anywhere, any time via voice, video, instant messaging, screen sharing and virtual meetings. Meru enhances this experience by delivering a Wi-Fi infrastructure that meets the stringent Microsoft Lync certification requirements.



Verified Solution - Downloadable App

Meru Collaborator provides a high performance solution that enables Lync to operate in an open wired and wireless network. The Meru OpenFlow enabled controller works with other OpenFlow network devices for a complete network topology achieving a unified view of the network. Meru Collaborator provides the ability to detect quality of service (QoS) issues on the network, deliver prescriptive resolution options and prioritize traffic across OpenFlow enabled networks.

Meru Collaborator is a built in application, licensed via the Meru App Store. As a pre-installed application, there is no need to re-provision the system which means that Lync is deployed on the Meru WLAN via single-click activation.



Apple Bonjour®

Whether at work or in school, students and staff want to use their Apple devices to print emails, photos and web pages. Apple AirPrint™ makes it easy, while Apple AirPlay® enables users to wirelessly stream from those same devices to their HDTV and speakers. Both use Bonjour, the underlying communication protocol. Bonjour cannot be routed across IP subnets, creating IT headaches. Without a gateway service, Bonjour cannot be supported on a multi-subnet network.

Meru's Personal Bonjour is one of FLEX Policy's Service Control features, giving mobile users the experience they expect while IT has the control it needs. Personal Bonjour is a built in application, licensed via the Meru App Store. As a pre-installed app it requires no need to re-provision the system and is deployed on the Meru WLAN via single-click activation. This eliminates the need for resource intensive manual configuration across both the wired and wireless networks saving time and reducing hassle.

Simplifying network application deployment

Meru Center is a software platform that centralizes the management and provisioning of enterprise network applications. Meru Center gives you control and single-console visibility over your Meru wireless LAN. This platform offers 1-click installation, single sign on, seamless backup, restore, and alarms for all dashboard applications. It gives you a unified view of applications, devices, and users, streamlining management. Additionally, the Meru App Store enables network administrators to quickly extend services and future-proof the network. The App Store streamlines allocation of storage, memory and infrastructure in virtualized environments greatly reducing the time and cost associated with application deployment. Meru Center can be deployed on a VMware-based virtual appliance or on a Meru Services Appliance. Meru Center includes the following applications:



Network Manager* is a comprehensive wireless management and troubleshooting system. It provides network visualization, configuration, wireless performance dashboards, and fault-management capabilities.



Meru Connect* simplifies secure access and BYOD for any client on any vendor's network. Optimized for ease-of-use, it dramatically reduces IT workload and delivers a trouble-free end-user experience.



Spectrum Manager* detects and classifies sources of wireless interference to deliver optimal spectrum usage. It lets you use the information captured from the RF environment for all Wi-Fi channels and quickly remediate interference issues.

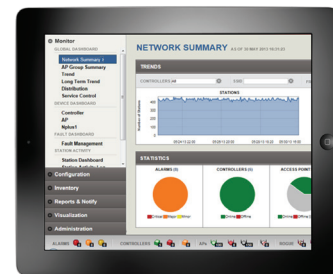
Network Manager, Meru Connect and Spectrum Manager all share a common administrator interface within Meru Center making it easy to navigate between the different applications.

Browse, find, install and use new network apps easily

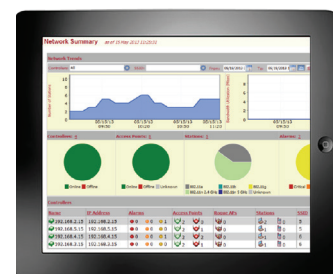
The Meru App Store integrated into Meru Center, enables network administrators to find, and install new applications that extend services and future-proof their networks. The App Store centralizes network resource deployment and provisioning. It streamlines storage, memory, and infrastructure allocation, eliminating the need to manually provision network resources. The Meru App Store will deliver a host of new functionality with Meru and third-party network applications.

Meru Center Advantages

- One Platform to Manage
- 1-click App Install/Upgrade
- Single Sign On (SSO)
- Speeds troubleshooting for rapid resolution
- Accelerates deployment of new services
- Continually audits your network security for best practices and policies
- Empowers you to provide a consistently excellent end-user experience
- Applies application-aware policies to each user



Network Manager is an intelligent and comprehensive network management system for Meru's wireless networks.



Meru Connect simplifies guest access and BYOD dramatically reducing IT workload while improving end-user experience.



Spectrum Manager puts you in control of the wireless spectrum with tools for proactive spectrum analysis and management.

WIRELESS CONTROLLERS

At the center of the Wireless LAN environment

These highly scalable controllers synchronize wireless access points to seamlessly optimize Wi-Fi traffic.



MC1550

- Small enterprises, branch offices
- 50 access points
- 2 x 10/100/1000BASE-T (RJ45)



MC4200

- Large enterprises, regional offices
- 500 access points
- 4 x 10/100/1000BASE-T (RJ45)
- * Optional: 2x1 GbE/10 GbE SFP+

Key Advantages of Meru Controllers

- Switch-like performance
- Ultra-high-density client support
- Multilayered security
- Simplified operation with centralized management
- Flexible deployment



MC3200

- Mid-size enterprises
- 200 access points
- 4 x 10/100/1000BASE-T (RJ45)



MC6000

- Headquarters, large campuses
- 5,000 access points
- 6 x 10-GbE only SFP+ or
- 6 x 1-GbE/10-GbE SFP+ per blade
- Maximum 10 blades per chassis

Redundancy Module

For resilience, our Redundancy module provides high availability at the system level through controller redundancy. With N+1 redundancy, one controller can act as a backup for other controllers, providing cost-effective continuity in case of a controller or back-end network failure.

SERVICES APPLIANCES

Meru Services Appliances provide the hardware platform for running the complete list of Meru software and management applications:

- Meru Center
- Network Manager
- Meru Connect
- PCI Compliance Manager
- Spectrum Manager
- Service Assurance Manager
- Wireless Intrusion Prevention System



SA250

- Designed for small enterprises



SA2000

- Designed for medium to large enterprises

Built for mobility

Meru wireless access points are designed to deliver the best wireless user experience in the industry. No channel planning. No power adjustment. Just install Meru Access Points, and they'll automatically receive configurations from the Meru Controller. Multiple operating modes give you the flexibility to design a wireless network suited to your specific needs.

Key Advantages of Meru Access Points

- Switch-like performance
- Plug-and-play deployment with easy capacity expansion
- No complex channel planning required
- Multiple operating modes
- Seamless mobility
- Superior reliability and performance



AP822

- Cost effective two stream design
- Dual radio 802.11b/g/n/a/ac
- Internal & external antennas



AP122

- Designed for in-room access for hotels, dorm rooms, and hospital rooms
- Dual radio 802.11b/g/n/802.11a/n/ac
- Multiple Ethernet ports w/ one PoE-Out port



AP332

- Dual-radio, three-stream 802.11 a/b/g/n
- Internal or external antennas
- High-performance wireless connectivity for high-density environments



AP433

- Three-radio, three-stream 802.11 a/b/g/n
- High-performance wireless connectivity
- Internal or external antennas
- Optional integrated spectrum analysis



AP1010 and AP1020

- Single- or dual-radio 802.11 a/b/g/n
- General purpose wireless connectivity
- Internal or external antennas



AP832

- Dual-radio, dual-mode, three stream 802.11a/b/g/n/ac
- High density environments
- Internal or external antennas



OAP433e

- Three-stream, three-radio 802.11 a/b/g/n
- Outdoor access point
- Rugged design for harsh environmental conditions



XP8i

- XPress Cloud managed 802.11a/b/g/n/ac access point
- Dual-radio, dual mode, two stream design
- Internal antennas

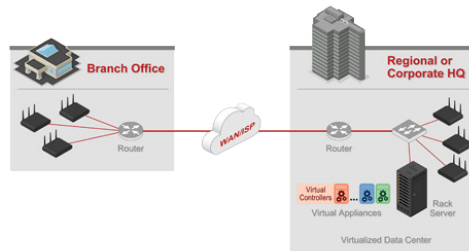
Cloud

Cloud Solutions for Every Enterprise

Private Cloud for Medium to Large Enterprise

Meru virtual mobility wireless LAN controllers and appliances complement Meru hardware-based solutions to give you deployment flexibility. These VMware-based virtual components operate on x86 computing platforms in a VMware environment. They can operate alongside other enterprise applications on the same platform, giving you the benefit of data center consolidation. Meru virtual controllers and appliances deliver the same functionality and capacity as their hardware counterparts.

Meru virtual appliances can be loaded onto low-profile rack servers or more scalable and modular blade servers. This enables you to build a highly scalable virtual chassis where server blades operate as independent virtual controller modules—with the same scalability and performance of purpose-built controllers.



- Leverage your current virtualization utilities and tools
- Enhance the resilience and manageability of your wireless network
- Reduce operational and capital expense
- Gain freedom in deploying and scaling your mobility infrastructure

Virtual Mobility LAN controllers

MC1550-VE –
50 access points
MC3200-VE –
200 access points
MC4200-VE –
500 access points
Meru Connect-VE

Virtual Wireless LAN Appliances

Network Manager-VE
Bundle:
- Service Assurance Manager
- PCI Compliance Manager
- Spectrum Manager
Wireless Intrusion Prevention System (WIPS)

Cloud Wi-Fi for Small, Medium and Distributed Enterprise

Meru XPress Cloud

XPress Cloud delivers a powerful and affordable Wi-Fi solution with the option for zero upfront equipment costs. With automatic AP configuration and an intuitive management dashboard the XPress Cloud WLAN is up and running in minutes. Save valuable IT resources with a fully managed solution that bundles hardware, software and 24x7 support in a simple service subscription fee.

Powerful Design

The XPress Cloud XP8i is a Meru designed dual radio 802.11ac access point that operates simultaneously in the 2.4 GHz and 5 GHz band. With an aggregate data rate of 1.2 Gbps the AP supports mobile voice, video and data. The XP8i is an enterprise-class AP with an extensive feature set:

- Support for 2x2 MIMO for improved link quality, reliability and network throughput.
- Two spatial streams provide gigabit data rates for each client.
- Enterprise-class authentication and encryption.
- Captive portal provides secure access for guests and personal devices. (BYOD)

Intuitive Deployment

XPress Cloud provides intuitive tools, automated provisioning, and management services to simplify your network setup. Once your access points are in place, your WLAN deploys in minutes.

- Operates without WLAN controllers or appliances.
- Self-forming clusters automate channel and power selection.
- Control your WLAN from anywhere with a cloud-based dashboard.
- Easy-to-use service provider and customer management tools.

Affordable Solution

XPress Cloud is available via two different purchase and license options, designed to best fit your needs.

- The subscription service option bundles a complete solution including APs, software and 24/7 support. This is perfect for organizations with limited equipment budgets.
- A traditional purchase option enables customers to purchase XPress Cloud APs, and license the software and support separately. This option works well for organizations that typically have capital equipment budgets.

Expertly delivered services and support increase the value of your technology investment

Maintenance Services

Meru offers a comprehensive range of MeruAssure support services to help you get the most out of your Meru investment. We can support your product after the sale with 24x7 technical support, advance hardware replacement, software bug fixes, and feature updates. For organizations that require always-on, always-working wireless delivery, MeruAssure Premium Services enable you to operate at peak performance with confidence. Three different premium service levels are offered, depending on your support needs: Enhanced, Business-critical, and Mission-critical.

MeruAssure

- Advance hardware replacement
- Prepaid hardware return shipping
- Technical support
- Software maintenance and feature releases
- Extended hardware warranty
- Web support portal and knowledge base

MeruAssure Premium Services

- Onsite system audits and network assessments
- Network assessment reports
- Onsite network performance tune-ups
- Service account management
- Direct tier-2 support engineer access (Business-critical and Mission-critical)
- A dedicated onsite support engineer (Mission-critical)

Education and Training

Meru offers education and training to both our customers and our partners. Instruction is available in recorded online courses, instructor-led online courses, and formal classroom sessions.

- Course content created and delivered by experts in Meru technology
- Easy online registration
- Choice of online or traditional classroom instruction

Education and Training

From planning through ongoing operation, we can help you get a quick and satisfactory return on your investment. Available directly from Meru or from authorized partners, our solution-focused services are aimed at making your experience with Meru products as convenient and rewarding as possible.

- Our product experts can help you custom-design your network
- Take advantage of Meru configuration best practices
- Learn from the experience our service professionals have gained deploying business-critical wireless networks in all kinds of industries

Meru delivers an all-wireless network that fully supports the enterprise, delivering a consistent, interactive experience for all users. No matter what applications they are running. No matter how many other users are on the network. For more information, visit www.merunetworks.com or email your questions to: meruinfo@merunetworks.com.

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MERU[®]

Corporate Headquarters
894 Ross Drive
Sunnyvale, CA 94089

T +1 (408) 215-5300

F +1 (408) 215-5301

E meruinfo@merunetworks.com